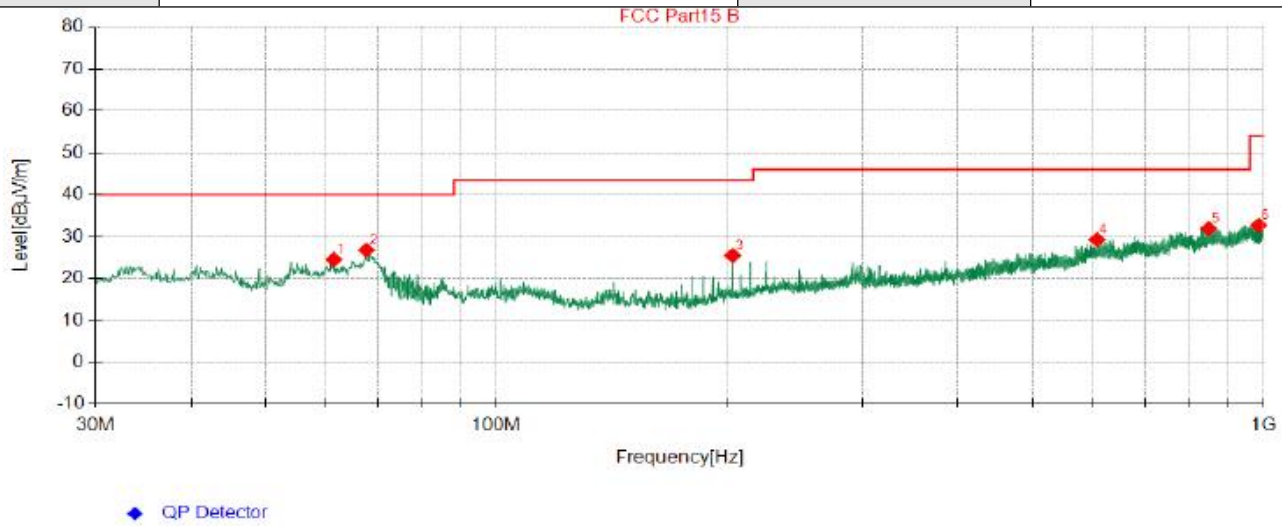
Radiated Emission Test Results at 30MHz-1GHz			
EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 1	**Antenna Polarity**	Vertical



Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	61.40	10.87	13.62	24.49	40.00	15.51	100	144	Vertical
2	67.70	14.99	11.77	26.76	40.00	13.24	100	107	Vertical
3	203.2	12.03	13.41	25.44	43.50	18.06	100	172	Vertical
4	606.9	6.79	22.46	29.25	46.00	16.75	100	335	Vertical
5	848.5	5.68	26.22	31.90	46.00	14.10	100	138	Vertical
6	985.9	5.50	27.18	32.68	54.00	21.32	100	125	Vertical

RESULT: Pass

Note:

1. Factor=Antenna Factor + Cable loss - Pre-amplifier, Margin=Limit-Measurement.
2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.

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Radiated Emissions Test Results Above 1GHz

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 1	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	54.45	0.08	54.53	74	-19.47	peak
4804.000	43.48	0.08	43.56	54	-10.44	AVG
7206.000	47.19	2.21	49.4	74	-24.6	peak
7206.000	39.87	2.21	42.08	54	-11.92	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 1	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	48.55	0.08	48.63	74	-25.37	peak
4804.000	39.38	0.08	39.46	54	-14.54	AVG
7206.000	45.24	2.21	47.45	74	-26.55	peak
7206.000	38.11	2.21	40.32	54	-13.68	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 2	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	50.25	0.14	50.39	74	-23.61	peak
4882.000	41.36	0.14	41.5	54	-12.5	AVG
7323.000	45.74	2.36	48.1	74	-25.9	peak
7323.000	36.45	2.36	38.81	54	-15.19	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 2	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4882.000	48.23	0.14	48.37	74	-25.63	peak
4882.000	39.61	0.14	39.75	54	-14.25	AVG
7323.000	42.74	2.36	45.1	74	-28.9	peak
7323.000	35.18	2.36	37.54	54	-16.46	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

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Radiated Emissions Test Results for Above 1GHz

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 3	**Antenna Polarity**	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	48.16	0.22	48.38	74	-25.62	peak
4960.000	40.28	0.22	40.5	54	-13.5	AVG
7440.000	41.37	2.64	44.01	74	-29.99	peak
7440.000	36.04	2.64	38.68	54	-15.32	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25℃	**Relative Humidity**	55.4%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz
Test Mode	Mode 3	**Antenna Polarity**	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	47.16	0.22	47.38	74	-26.62	peak
4960.000	39.29	0.22	39.51	54	-14.49	AVG
7440.000	39.45	2.64	42.09	74	-31.91	peak
7440.000	35.19	2.64	37.83	54	-16.17	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note:

1. The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
2. Factor = Antenna Factor + Cable loss – Pre-amplifier gain, Margin =Emission Level-Limit.
3. The “Factor” value can be calculated automatically by software of measurement system.

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Band Edge Emission Test Results for Restricted Bands

EUT Name	TV headphones	**Model Name**	AC141
Temperature	25.9℃	**Relative Humidity**	53%
Pressure	960hPa	**Test Voltage**	AC 120V/60Hz

The worst test result for GFSK, Channel 0 / 2402 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2390.00	56.99	29.99	30.21	8.35	65.12	74	8.88	Peak	Horizontal
1	2390.00	39.91	29.99	30.21	8.35	48.04	54	5.96	AV	Horizontal
2	2390.00	58.10	29.99	30.21	8.35	66.23	74	7.77	Peak	Vertical
2	2390.00	36.92	29.99	30.21	8.35	45.05	54	8.95	AV	Vertical

The worst test result for GFSK, Channel 78 / 2480 MHz										
Item (Mark)	Freq. MHz	Reading dBμV	Ant. Fac. dB/m	PRM Factor dB	Cable Loss dB	Level dBμV/m	Limit dBμV/m	Margin dB	Detector	Pol.
1	2483.50	55.99	30.25	30.25	8.5	64.49	74	9.51	Peak	Horizontal
1	2483.50	26.51	30.25	30.25	8.5	35.01	54	18.99	AV	Horizontal
2	2483.50	50.02	30.25	30.25	8.5	58.52	74	15.48	Peak	Vertical
2	2483.50	28.09	30.25	30.25	8.5	36.59	54	17.41	AV	Vertical
3	2486.59	58.80	30.25	30.25	8.5	67.30	74	6.70	Peak	Horizontal
3	2481.91	35.77	30.25	30.25	8.5	44.27	54	9.73	AV	Horizontal
4	2499.24	48.69	30.25	30.25	8.5	57.19	74	16.81	Peak	Vertical
4	2498.70	37.91	30.25	30.25	8.5	46.41	54	7.59	AV	Vertical

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. Margin = Emission Level - Limit

RESULT: Pass

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10. Number of Hopping Frequency Measurement

10.1 Provisions Applicable

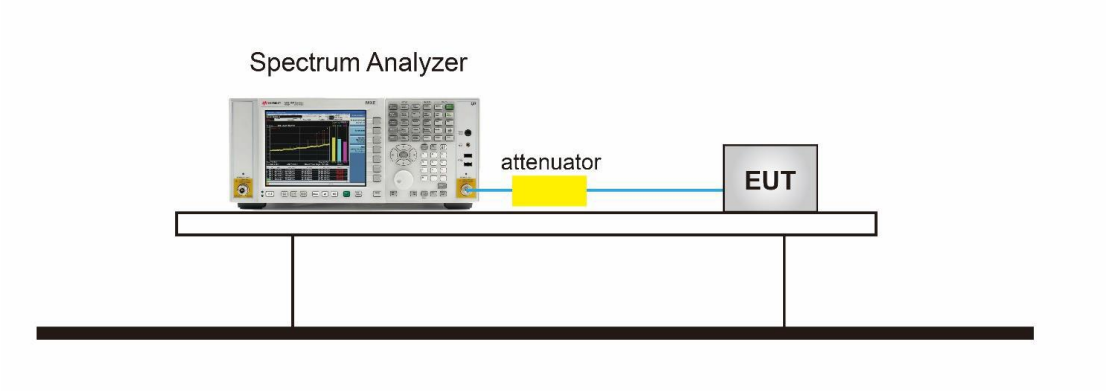
This frequency hopping system must employ a minimum of 15 hopping channels.

10.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span = The frequency band of operation. Depending on the number of channels the device
2. supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
3. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
4. VBW ⩾ RBW
5. Sweep time = Auto couple
6. Detector = Peak
7. Trace mode = Max hold
8. Allow the trace to stabilize

10.3 Measurement Setup (Block Diagram of Configuration)



10.4 Measurement Result

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
DH5	79	>=15	Pass
2DH5	79	>=15	Pass
3DH5	79	>=15	Pass

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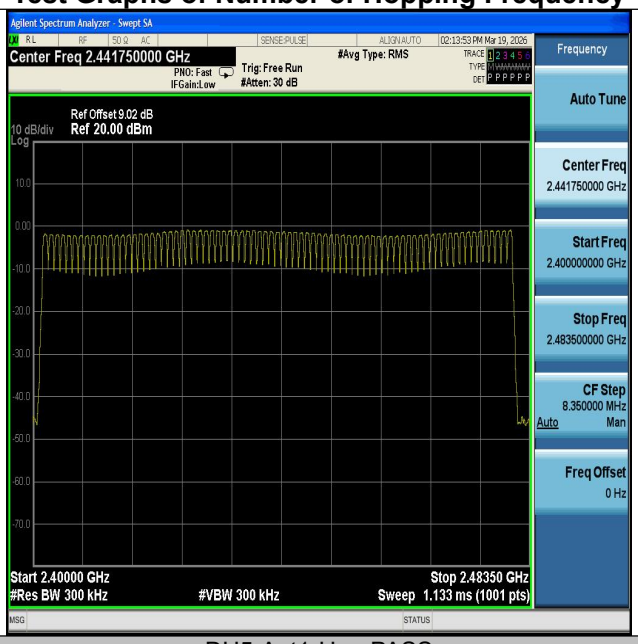
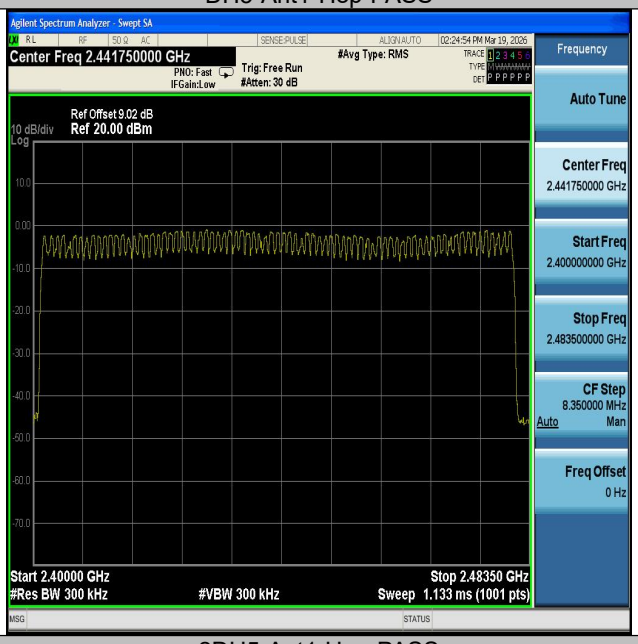
Test Graphs of Number of Hopping Frequency



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS

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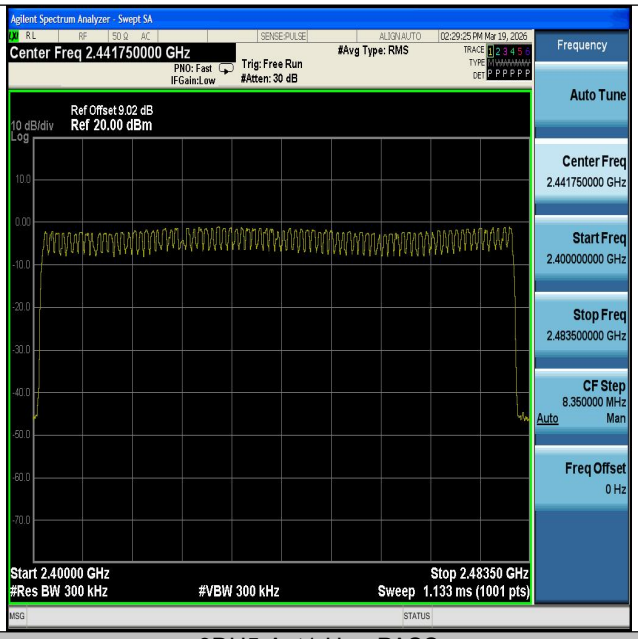

3DH5-Ant1-Hop-PASS

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11. Time of Occupancy (Dwell Time) Measurement

11.1 Provisions Applicable

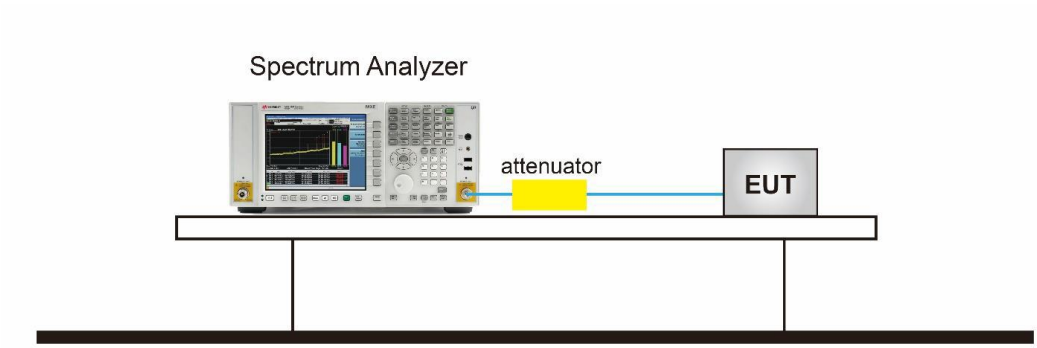
The maximum permissible time of occupancy is 400ms within a period of 400ms multiplied by the number of hopping channels employed.

11.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span = Zero span, centered on a hopping channel.
2. RBW shall be ⩽ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
3. VBW ⩾ RBW
4. Sweep time = As necessary to capture the entire dwell time per hopping channel
5. Detector = Peak
6. Trace mode = Free Run
7. Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time. An oscilloscope may be used instead of a spectrum analyzer. The EUT shall show compliance with the appropriate regulatory limit for the number of hopping channels. A plot of the data shall be included in the test report.

11.3 Measurement Setup (Block Diagram of Configuration)



11.4 Measurement Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	TotalHops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.910	100	0.291	≤0.4	PASS
2DH5	Ant1	Hop	2.917	70	0.204	≤0.4	PASS
3DH5	Ant1	Hop	2.917	80	0.233	≤0.4	PASS

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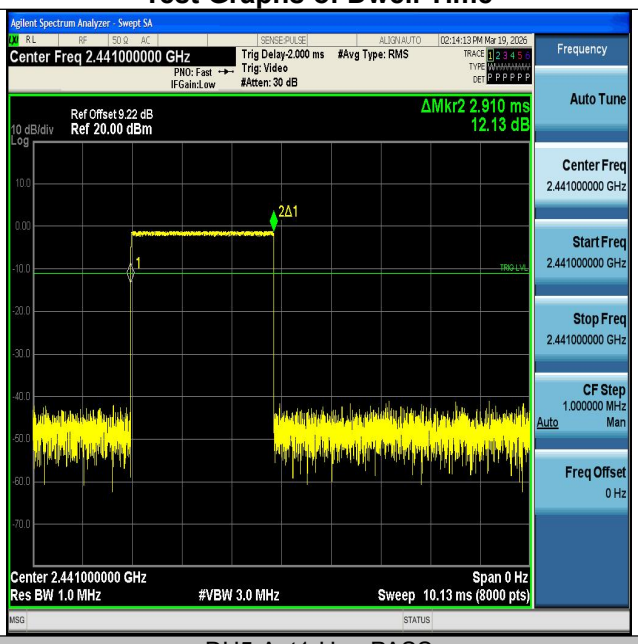
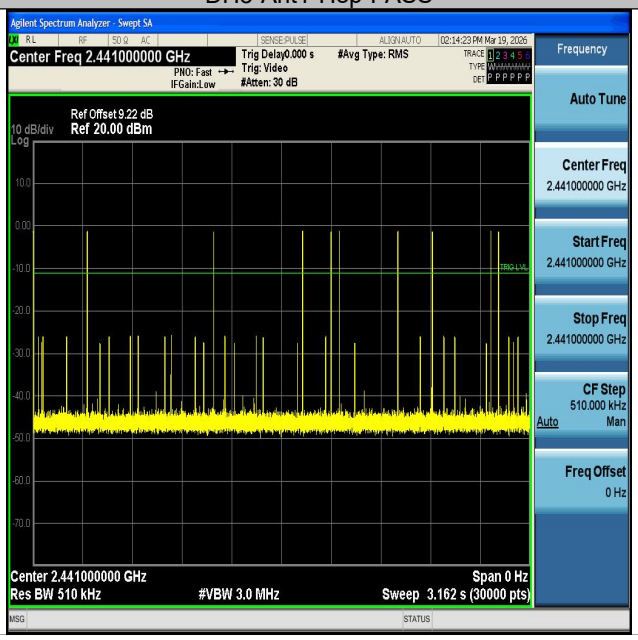
Test Graphs of Dwell Time



DH5-Ant1-Hop-PASS



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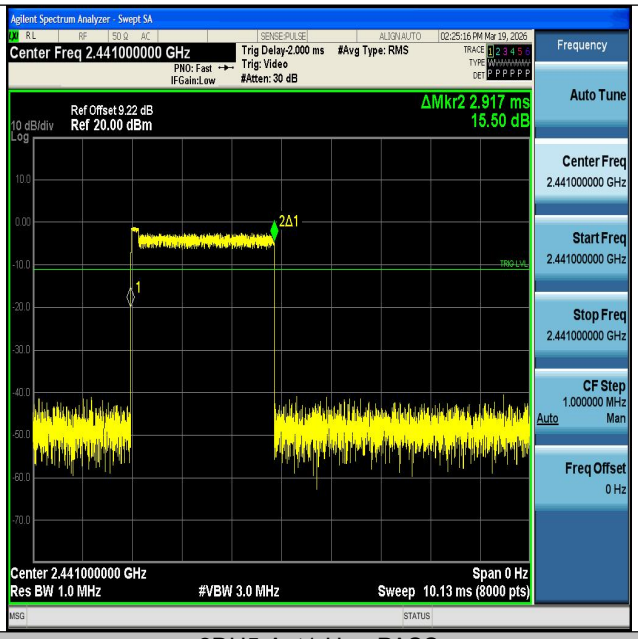
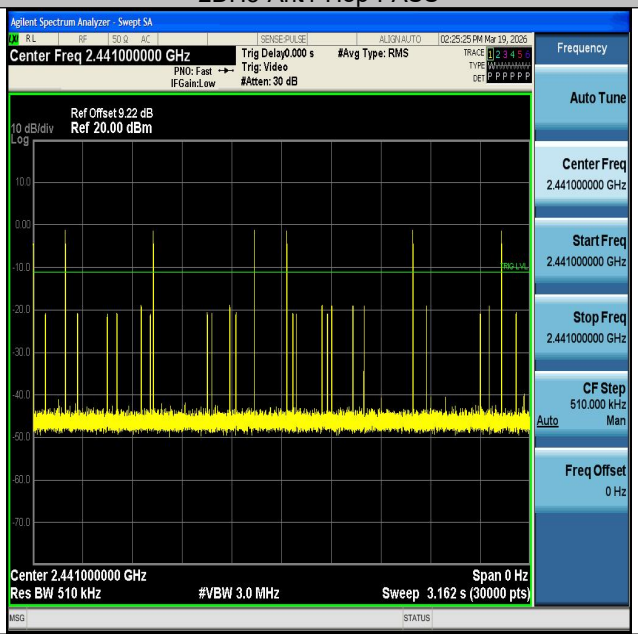


2DH5-Ant1-Hop-PASS



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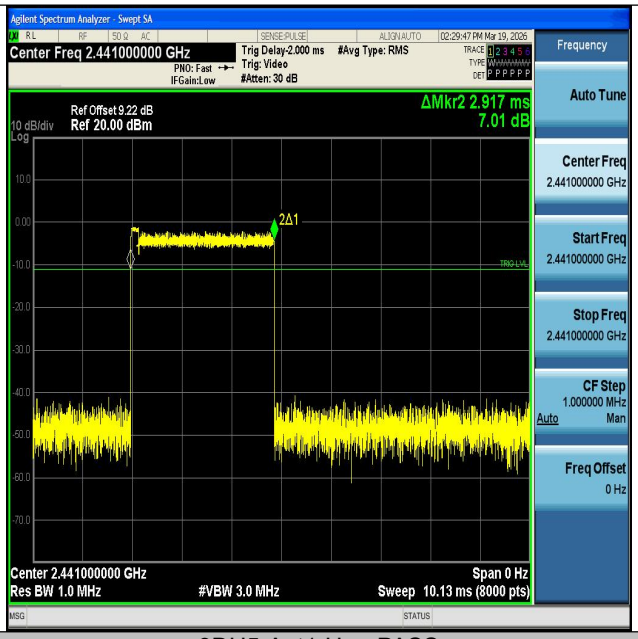
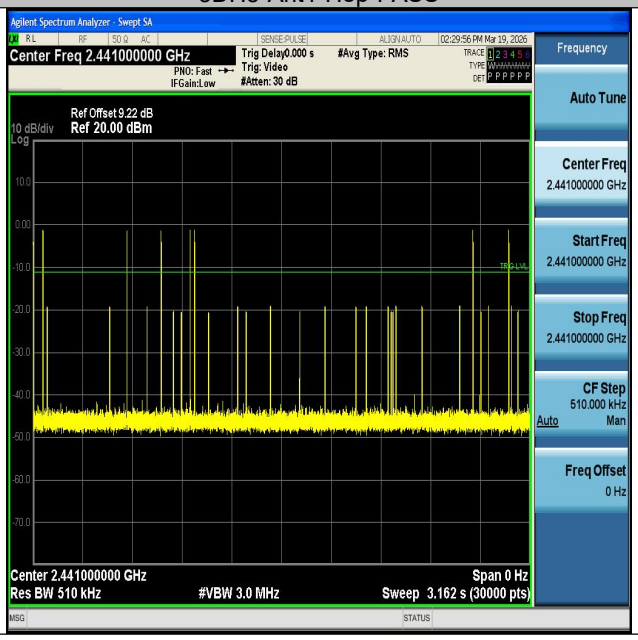


3DH5-Ant1-Hop-PASS



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12. Frequency Separation Measurement

12.1 Provisions Applicable

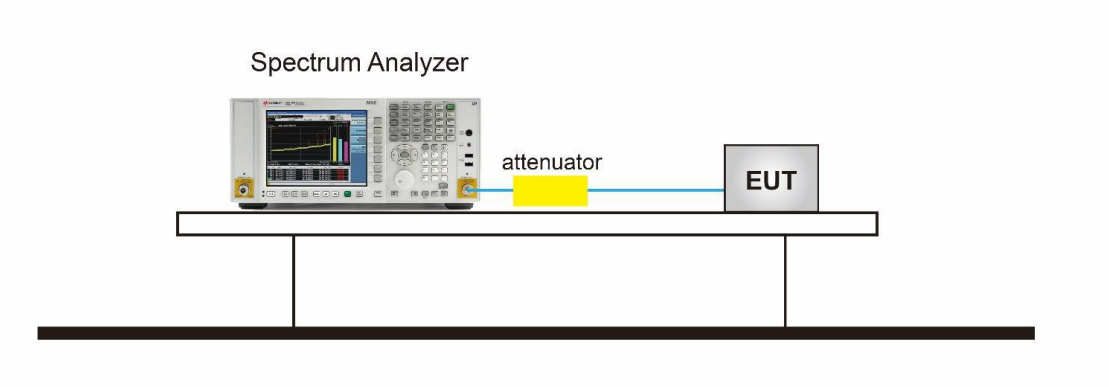
When the power is less than 0.125W: The minimum permissible channel separation for this system is 2/3 the value of the 20dB BW.
When the power is less than 1W: The minimum permissible channel separation for this system is 20dB BW.

12.2 Measurement Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.
2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
3. Video (or average) bandwidth (VBW) ⩾ RBW.
4. Sweep: Auto.
5. Detector function: Peak.
6. Trace: Max hold. g) Allow the trace to stabilize.
7. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

12.3 Measurement Setup (Block Diagram of Configuration)



12.4 Measurement Result

Test Data of Frequency Separation			
Test Mode	Channel Separation (MHz)	Limits (MHz)	Pass or Fail
DH5	0.988	≥0.963	Pass
2DH5	0.982	≥0.798	Pass
3DH5	0.994	≥0.842	Pass

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Test Graphs of Frequency Separation

DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS

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3DH5-Ant1-Hop-PASS

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13. AC Power Line Conducted Emission Test

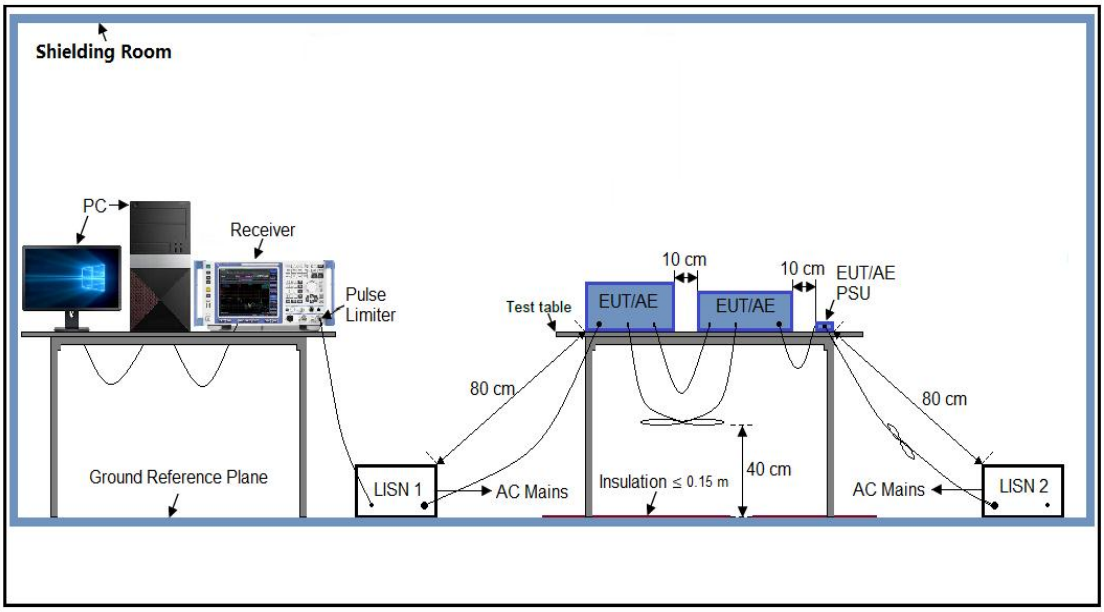
13.1 Measurement Limit

Frequency	Maximum RF Line Voltage	
	Q.P. (dBμV)	Average (dBμV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2 Measurement Setup (Block Diagram of Configuration)



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13.3 Preliminary Procedure of Line Conducted Emission Test

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side).
7. Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
8. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
9. During the above scans, the emissions were maximized by cable manipulation.
10. The test mode(s) were scanned during the preliminary test.
11. Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4 Final Procedure of Line Conducted Emission Test

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
3. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
4. The test data of the worst case condition(s) was reported on the Summary Data page.
5. A conducted emission is calculated by the following equation:
   - Measurement Level (dBμV) = Receiver reading (dBμV) + Transd (dB)
   - Transd (dB)= AMN Factor(dB)+Cable Loss(dB)+Attenuation(dB)
   - Margin= Limit-Level

13.5 Measurement Result

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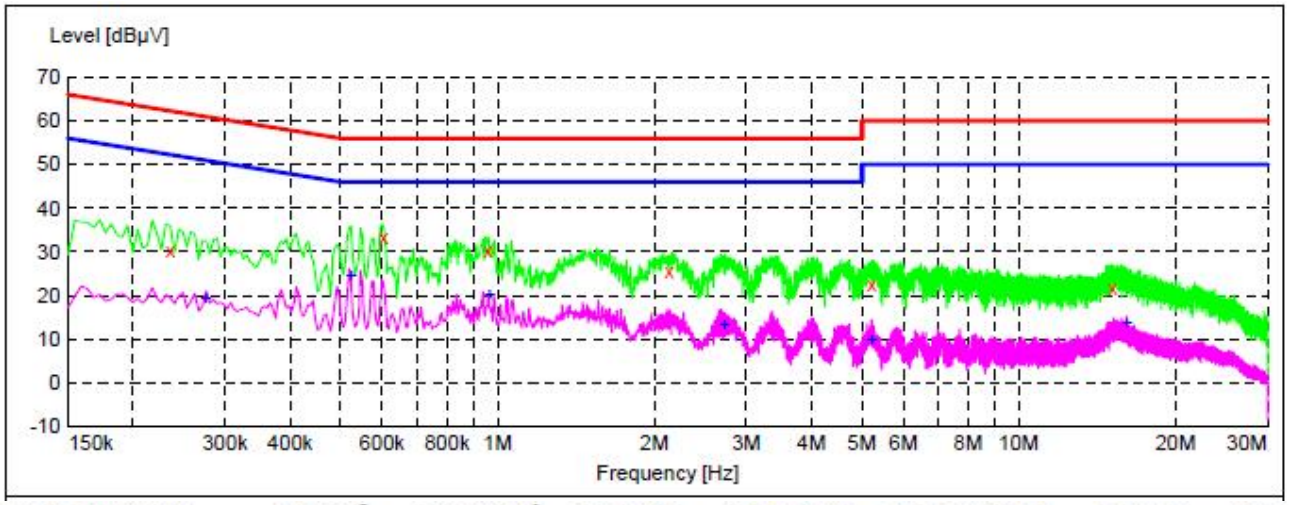
AC Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Hot Side



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.235500	30.10	9.6	62	32.2	QP	L1	GND
0.604500	33.40	9.6	56	22.6	QP	L1	GND
0.960000	30.40	9.7	56	25.6	QP	L1	GND
2.134500	25.40	9.7	56	30.6	QP	L1	GND
5.217000	22.50	9.7	60	37.5	QP	L1	GND
15.148500	21.80	9.8	60	38.2	QP	L1	GND
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.276000	19.30	9.6	51	31.6	AV	L1	GND
0.523500	24.80	9.6	46	21.2	AV	L1	GND
0.964500	20.30	9.7	46	25.7	AV	L1	GND
2.719500	13.30	9.7	46	32.7	AV	L1	GND
5.212500	9.90	9.7	50	40.1	AV	L1	GND
16.089000	14.00	9.8	50	36.0	AV	L1	GND

RESULT: PASS

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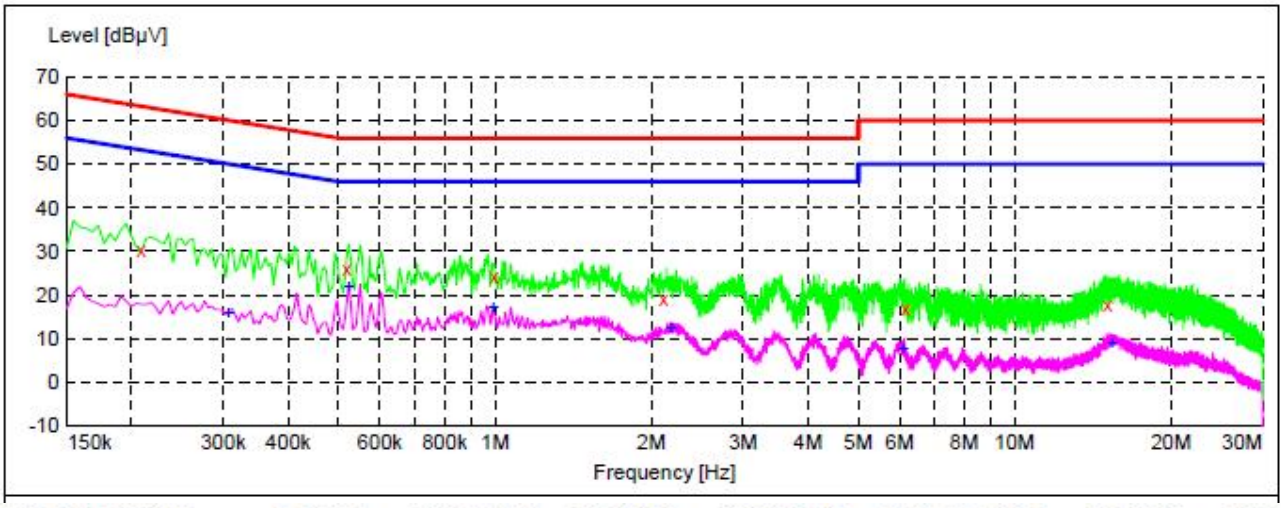
AC Power Line Conducted Emission Test			
Test Mode	Mode 1	LISN Line	Neutral Side



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.208500	30.40	9.6	63	32.9	QP	N	GND
0.519000	26.10	9.6	56	29.9	QP	N	GND
0.996000	24.40	9.7	56	31.6	QP	N	GND
2.112000	19.10	9.7	56	36.9	QP	N	GND
6.162000	17.10	9.7	60	42.9	QP	N	GND
15.076500	17.80	9.8	60	42.2	QP	N	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.307500	15.80	9.6	50	34.2	AV	N	GND
0.523500	22.00	9.6	46	24.0	AV	N	GND
0.991500	17.20	9.7	46	28.8	AV	N	GND
2.179500	12.70	9.7	46	33.3	AV	N	GND
6.085500	7.70	9.7	50	42.3	AV	N	GND
15.373500	9.30	9.8	50	40.7	AV	N	GND

RESULT: PASS

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC10211260310AP01

Appendix II: Photographs of Test EUT

Refer to the Report No.: AGC10211260310AP02

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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